

## Complete Summary

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### TITLE

Asthma: percentage of pediatric patients admitted for asthma who received systemic corticosteroids.

### SOURCE(S)

Child Health Corporation of America. [Web site]. Shawnee Mission (KS): Child Health Corporation of America (CHCA); [cited 2004 Dec 06]. [various].

Child Health Corporation of America. Measure definition workseet: asthma. Shawnee Mission (KS): Child Health Corporation of America; 2004 May 20. 6 p.

## Measure Domain

### PRIMARY MEASURE DOMAIN

#### Process

The validity of measures depends on how they are built. By examining the key building blocks of a measure, you can assess its validity for your purpose. For more information, visit the [Measure Validity](#) page.

### SECONDARY MEASURE DOMAIN

Does not apply to this measure

## Brief Abstract

### DESCRIPTION

This measure assesses the percentage of pediatric patients admitted for asthma who received systemic corticosteroids.

### RATIONALE

Undertreatment and/or inappropriate treatment of asthma are recognized as major contributors to asthma morbidity and mortality. Asthma is a leading cause of inpatient admission. Administration of appropriate medication therapy during the inpatient hospitalization is under the direct control of the care provider.

### PRIMARY CLINICAL COMPONENT

Asthma; systemic corticosteroids medications

#### DENOMINATOR DESCRIPTION

Pediatric patients, age 0 to 17 years, admitted for asthma\*

\*International Classification of Diseases, Ninth Revision (ICD-9) code of 493.xx

#### NUMERATOR DESCRIPTION

Number of patients from the denominator who received systemic corticosteroid medications (Refer to the original measure documentation for additional details.)

### Evidence Supporting the Measure

#### EVIDENCE SUPPORTING THE CRITERION OF QUALITY

- A clinical practice guideline or other peer-reviewed synthesis of the clinical evidence

#### NATIONAL GUIDELINE CLEARINGHOUSE LINK

- [Expert Panel Report: guidelines for the diagnosis and management of asthma. Update on selected topics.](#)

### Evidence Supporting Need for the Measure

#### NEED FOR THE MEASURE

Use of this measure to improve performance

#### EVIDENCE SUPPORTING NEED FOR THE MEASURE

Throop C. (Child Health Corporation of America, Shawnee Mission, Kansas). Memo: CHCA measures validity and reliability testing. 2004 July 6. 1 p.

### State of Use of the Measure

#### STATE OF USE

Current routine use

#### CURRENT USE

Collaborative inter-organizational quality improvement  
Internal quality improvement

## Application of Measure in its Current Use

### CARE SETTING

Hospitals

### PROFESSIONALS RESPONSIBLE FOR HEALTH CARE

Physicians

### LOWEST LEVEL OF HEALTH CARE DELIVERY ADDRESSED

Single Health Care Delivery Organizations

### TARGET POPULATION AGE

Age 0 to 17 years

### TARGET POPULATION GENDER

Either male or female

### STRATIFICATION BY VULNERABLE POPULATIONS

Unspecified

## Characteristics of the Primary Clinical Component

### INCIDENCE/PREVALENCE

Unspecified

### ASSOCIATION WITH VULNERABLE POPULATIONS

Unspecified

### BURDEN OF ILLNESS

Unspecified

### UTILIZATION

Unspecified

### COSTS

Unspecified

## Institute of Medicine National Healthcare Quality Report Categories

### IOM CARE NEED

Living with Illness

### IOM DOMAIN

Effectiveness

## Data Collection for the Measure

### CASE FINDING

Users of care only

### DESCRIPTION OF CASE FINDING

Pediatric patients, age 0 to 17 years, admitted for asthma\*

\*International Classification of Diseases, Ninth Revision (ICD-9) code of 493.xx

### DENOMINATOR SAMPLING FRAME

Patients associated with provider

### DENOMINATOR INCLUSIONS/EXCLUSIONS

#### Inclusions

Pediatric patients, age 0 to 17 years, admitted for asthma\*

\*International Classification of Diseases, Ninth Revision (ICD-9) code of 493.xx

#### Exclusions

Patients aged greater than 17 years

### DENOMINATOR (INDEX) EVENT

Clinical Condition

Institutionalization

### DENOMINATOR TIME WINDOW

Time window follows index event

### NUMERATOR INCLUSIONS/EXCLUSIONS

#### Inclusions

Number of patients from the denominator who received systemic corticosteroid medications (Refer to the original measure documentation for additional details.)

#### Exclusions

Unspecified

#### NUMERATOR TIME WINDOW

Institutionalization

#### DATA SOURCE

Administrative data

#### LEVEL OF DETERMINATION OF QUALITY

Individual Case

#### PRE-EXISTING INSTRUMENT USED

Unspecified

### Computation of the Measure

#### SCORING

Rate

#### INTERPRETATION OF SCORE

Better quality is associated with a higher score

#### ALLOWANCE FOR PATIENT FACTORS

Analysis by subgroup (stratification on patient factors, geographic factors, etc.)

#### DESCRIPTION OF ALLOWANCE FOR PATIENT FACTORS

Data are stratified by the American Academy of Pediatrics (AAP) age groups: 0 to 2 years, 3 to 5 years, and 6 to 17 years.

For this measure, data are stratified by some or all of these elements including age parameters, days of stay, and specific conditions defined through the all-patient refined diagnosis-related group (APR-DRG) system or specific International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) codes.

This measure may also be stratified by payor type, race, or ethnicity.

## STANDARD OF COMPARISON

External comparison at a point in time  
Internal time comparison

## Evaluation of Measure Properties

## EXTENT OF MEASURE TESTING

Unspecified

## Identifying Information

## ORIGINAL TITLE

Use of asthma medications for inpatient asthma patients by AAP age groups: use of systemic corticosteroids.

## MEASURE COLLECTION

[Pediatric Health Information System Measures](#)

## DEVELOPER

Child Health Corporation of America

## ENDORSER

National Quality Forum

## ADAPTATION

Measure was not adapted from another source.

## RELEASE DATE

2004 May

## MEASURE STATUS

This is the current release of the measure.

## SOURCE(S)

Child Health Corporation of America. [Web site]. Shawnee Mission (KS): Child Health Corporation of America (CHCA); [cited 2004 Dec 06]. [various].

Child Health Corporation of America. Measure definition workseet: asthma. Shawnee Mission (KS): Child Health Corporation of America; 2004 May 20. 6 p.

## MEASURE AVAILABILITY

The individual measure, "Use of asthma medications for inpatient asthma patients by AAP age groups: Use of Systemic Corticosteroids," is available from the [Child Health Corporation of America \(CHCA\) Web site](#).

For more information, contact Child Health Corporation of America (CHCA) at, 6803 West 64th Street, Suite 208, Shawnee Mission, KS 66202; phone: 913-262-1436; fax: 913-262-1575; Web site: [www.chca.com](http://www.chca.com).

## NQMC STATUS

This NQMC summary was completed by ECRI on September 13, 2004. The information was verified by the measure developer on December 3, 2004.

## COPYRIGHT STATEMENT

This NQMC summary is based on the original measure, which is subject to the measure developer's copyright restrictions.

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The logo for FIRST GOV, with "FIRST" in blue and "GOV" in red, and a small red star above the "I".

